

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

1 of 4

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO. / TASK NO.	JOB ORDER NUMBER	APPROVAL
QSS Group, Inc.	NAS5- 99124 TASK NO. 380 AMENDMENT	562-297-60-20-89	00

TASK TITLE: (NTE 80 characters; include Project name)

Components Test and Analysis Services

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)

Vinod Patel

Scott Hull

DATE

8/31/00

ORG
CODE

562

MAIL
CODE

562

PHONE

9267
301-286-4157

BRANCH HEAD

Darryl Lakins

DATE

CODE

562

PHONE

301-286-6382

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

SIC
Robert S. Lebar, Jr.

DATE

9/21/00

CODE

560

PHONE

301-286-6588

FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?

(If YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)

CONTRACTING OFFICER'S QUALITY REP.

DESIGNATED FAM:

[X] NO [] YES

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)

C.O. Requested Quote on:

Date: 9/22/00

Contractor will develop specification or statement of work under this task for a future procurement. [X] NO [] YES

Flight hardware will be shipped to GSFC for testing prior to final delivery. [] NO [] YES [X] N/A

Government Furnished Property/Facilities: [X] NO [] YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: [] NO [X] YES If yes: [X] TOTAL [] PARTIAL
If partial, indicate onsite work in SOW by asterisk (*)

Surveillance Plan Attached: [X] NO [] YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be 10/1/00.

INCENTIVE FEE STRUCTURE (check one)

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	<u>X</u> No. 1	No. 2	No. 3	No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ 655,326

The target fee of this task order is \$ 40,597

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 695,923

The maximum fee is \$ 59,334

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

Theresa J. Becker
SIGNATURE OF CONTRACTING OFFICER

1/03/01
DATE

Theresa J. Becker
TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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QSS Group, Inc.	NAS5- 99124	TASK NO. 380	AMENDMENT
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Applicable paragraphs from contract Statement of Work:

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

See Page 3.

PERFORMANCE SPECIFICATIONS:

Reports and Documents: Technical performance will be based on thoroughness and completeness of written reports. Acceptable performance is that the ATR is satisfied that the material reflects the proper level of technical expertise and meets the objectives of the activity. Analyses shall be documented in a report format using photographs and diagrams as necessary and addressing objectives, techniques, results, conclusions, and recommendations. Inspections, screening results, and qualification results shall be documented according to project requirements for traceability and certification. All reports shall be reviewed by at least one engineer in addition to the author and the customer. Reports shall be suitable for distribution to the Center, Agency, and parts community.

Technical Progress Report: Acceptable performance is that the ATR is satisfied that he is being kept informed of the status of work performed and of issues requiring his attention.

Management: Performance will be measured against the following metrics: (1) accomplishment of objectives; (2) clear, incremental progress; (3) responsiveness to issues; (4) efficient and appropriate staffing; and (5) coordination with and good working relationship with ATR and other related contractor efforts, if applicable.

APPLICABLE DOCUMENTS:

NASA SP-6508, "Book of Method of Failure Analysis Techniques", and external industry standards.

TASK END DATE: 9/30/01

MILESTONES/DELIVERABLES AND DATES:

Technical Progress Report: monthly, 15th of the month

Summary Reports and Work Order Assignments: as required

Reports of Test and Analysis Results: within 10 days of completion of tests and analysis

PERFORMANCE STANDARDS:

Schedule: On-time delivery/completion of the above deliverables/milestones

Technical: ATR's acceptance of the above

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Scott Huff, building 6, room S14

Vinod Patel 5030

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Contract NAS5-99124

380**STATEMENT OF WORK:**

The contractor shall perform laboratory services to include but not limited to the following: failure analyses (FA) of Electronic, Electrical, and Electromechanical (EEE) parts and assemblies; destructive physical analyses (DPA); incoming test and inspection; screening and evaluation; operate and maintain various data bases of part reliability history. The types of EEE parts involved will include microprocessors, solid state memories, digital and linear microcircuits, transistors, diodes, capacitors, relays, resistors, connectors, wire, and cable. The contractor shall provide reports of laboratory support to include description of methods used, results, conclusions, and recommendations.

Failure Analysis (FA) - The contractor shall conduct analyses of failed parts, materials and components to determine and classify the physical mechanisms of failure(s), e.g. manufacturing defect, overstress, misapplication, inadequate specification, improper testing, and/or misclassification. The contractor shall provide sufficient expertise to perform FA in accordance with internally developed standards, NASA SP-6508, "Book of Method of Failure Analysis Techniques," and external industry standards.

Destructive Physical Analysis (DPA) - The contractor shall conduct DPA of the manufacturing quality of parts and components to determine if the component has characteristics and construction features that meet the requirements of the applicable NASA specification. DPA will include electrical, mechanical, environmental and analytical testing.

Incoming Test and Inspection - The contractor shall conduct incoming test and inspection of EEE parts in accordance with appropriate NASA, manufacturer, contractor, or Military drawings and specifications. These tests of electrical and physical parameters determine compliance with the procurement specifications and may involve pass/fail tests or variables data measurements. The contractor shall provide summary reports and certification logs as required.

Screening Evaluation and Qualification Tests - The contractor shall conduct screening and evaluation/qualification testing of EEE parts in accordance with appropriate NASA, manufacturer, contractor, or Military drawings and specifications and contractor prepared procedures. Analyze results of tests and provide summary reports. Screening is a series of electrical and environmental tests performed to reveal latent defects. Evaluation or qualification tests are a series of electrical and environmental tests to determine the suitability of parts for spaceflight applications. They may involve pass/fail tests or

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380**STATEMENT OF WORK:**

variables data measurements. The contractor shall provide summary reports and certification logs as required.

Incoming Test and Inspection - The contractor shall conduct incoming test and inspection of EEE parts in accordance with appropriate NASA, manufacturer, contractor, or Military drawings and specifications. These tests of electrical and physical parameters determine compliance with the procurement specifications and may involve pass/fail tests or variables data measurements. The contractor shall provide summary reports and certification logs as required.

Reports and Publications - The contractor shall prepare reports of test and analysis results. Analyses shall be documented in a report format using photographs and diagrams as necessary and addressing objectives, techniques, results, conclusions, and recommendations. Inspections, screening results, and qualification results shall be documented according to protect requirements for traceability and certification. Reports shall be suitable for distribution to center, agency, and the parts community. When appropriate or required, the contractor shall prepare GIDEP (Government/Industry Data Exchange Program) ALERTS for submission through the appropriate center channels.